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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q3278 **Order ID:** Q3278

**Client:** G Environmental **Project ID:** DPW

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID : MW10** | | | | | | | | |
| Q3278-01 | MW10 | Water | Iron | 61300 | | 11.7 | 50.0 | ug/L |
| Q3278-01 | MW10 | Water | Manganese | 27700 | D | 5.94 | 20.0 | ug/L |
| Q3278-01 | MW10 | Water | Sodium | 356000 | | 434 | 1000 | ug/L |

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | G Environmental | Date Collected: | 10/02/25 |
| Project: | DPW | Date Received: | 10/02/25 |
| Client Sample ID: | MW10 | SDG No.: | Q3278 |
| Lab Sample ID: | Q3278-01 | Matrix: | Water |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 61300 | | 1 | 11.7 | 50.0 | ug/L | 10/03/25 10:20 | 10/09/25 13:05 | 6010D | SW3010 |
| 7439-96-5 | Manganese | 27700 | D | 2 | 5.94 | 20.0 | ug/L | 10/03/25 10:20 | 10/09/25 13:14 | 6010D | SW3010 |
| 7440-23-5 | Sodium | 356000 | | 1 | 434 | 1000 | ug/L | 10/03/25 10:20 | 10/09/25 13:05 | 6010D | SW3010 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Colorless | Clarity Before: | Clear | Texture: | |
| Color After: | Colorless | Clarity After: | Clear | Artifacts: | |
| Comments: | Metals Group3 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** G Environmental **SDG No.:** Q3278

**Contract:** GENV01 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICB01 | Iron | 23.4 | +/-50 | U | 100 | P | 10/08/2025 | 12:36 | LB137466 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 10/08/2025 | 12:36 | LB137466 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 10/08/2025 | 12:36 | LB137466 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** G Environmental **SDG No.:** Q3278

**Contract:** GENV01 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB01** | Iron | 23.4 | +/-50 | U | 100 | P | 10/08/2025 | 13:16 | LB137466 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 10/08/2025 | 13:16 | LB137466 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 10/08/2025 | 13:16 | LB137466 |
| **CCB02** | Iron | 23.4 | +/-50 | U | 100 | P | 10/08/2025 | 14:18 | LB137466 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 10/08/2025 | 14:18 | LB137466 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 10/08/2025 | 14:18 | LB137466 |
| **CCB03** | Iron | 23.4 | +/-50 | U | 100 | P | 10/08/2025 | 15:13 | LB137466 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 10/08/2025 | 15:13 | LB137466 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 10/08/2025 | 15:13 | LB137466 |
| **CCB04** | Iron | 23.4 | +/-50 | U | 100 | P | 10/08/2025 | 16:15 | LB137466 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 10/08/2025 | 16:15 | LB137466 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 10/08/2025 | 16:15 | LB137466 |
| **CCB05** | Iron | 23.4 | +/-50 | U | 100 | P | 10/08/2025 | 17:06 | LB137466 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 10/08/2025 | 17:06 | LB137466 |
| | Sodium | 1530 | +/-1000 | J* | 2000 | P | 10/08/2025 | 17:06 | LB137466 |
| **CCB06** | Iron | 23.4 | +/-50 | U | 100 | P | 10/08/2025 | 17:57 | LB137466 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 10/08/2025 | 17:57 | LB137466 |
| | Sodium | 1100 | +/-1000 | J* | 2000 | P | 10/08/2025 | 17:57 | LB137466 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** G Environmental **SDG No.:** Q3278

**Contract:** GENV01 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICB01 | Iron | 23.4 | +/-50 | U | 100 | P | 10/09/2025 | 11:59 | LB137484 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 10/09/2025 | 11:59 | LB137484 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 10/09/2025 | 11:59 | LB137484 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** G Environmental **SDG No.:** Q3278

**Contract:** GENV01 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB01** | Iron | 23.4 | +/-50 | U | 100 | P | 10/09/2025 | 12:46 | LB137484 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 10/09/2025 | 12:46 | LB137484 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 10/09/2025 | 12:46 | LB137484 |
| **CCB02** | Iron | 23.4 | +/-50 | U | 100 | P | 10/09/2025 | 14:20 | LB137484 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 10/09/2025 | 14:20 | LB137484 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 10/09/2025 | 14:20 | LB137484 |
| **CCB03** | Iron | 23.4 | +/-50 | U | 100 | P | 10/09/2025 | 15:30 | LB137484 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 10/09/2025 | 15:30 | LB137484 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 10/09/2025 | 15:30 | LB137484 |
| **CCB04** | Iron | 23.4 | +/-50 | U | 100 | P | 10/09/2025 | 16:41 | LB137484 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 10/09/2025 | 16:41 | LB137484 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 10/09/2025 | 16:41 | LB137484 |
| **CCB05** | Iron | 23.4 | +/-50 | U | 100 | P | 10/09/2025 | 17:31 | LB137484 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 10/09/2025 | 17:31 | LB137484 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 10/09/2025 | 17:31 | LB137484 |
| **CCB06** | Iron | 23.4 | +/-50 | U | 100 | P | 10/09/2025 | 18:20 | LB137484 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 10/09/2025 | 18:20 | LB137484 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 10/09/2025 | 18:20 | LB137484 |
| **CCB07** | Iron | 23.4 | +/-50 | U | 100 | P | 10/09/2025 | 18:33 | LB137484 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 10/09/2025 | 18:33 | LB137484 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 10/09/2025 | 18:33 | LB137484 |

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# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** G Environmental **SDG No.:** Q3278

**Instrument:** P4

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB169978BL** | | **WATER** | | **Batch Number:** | **PB169978** | | **Prep Date:** | **10/03/2025** | |
| | Iron | 11.7 | <25 | U | 50.0 | P | 10/08/2025 | 15:30 | LB137466 |
| | Manganese | 2.97 | <5 | U | 10.0 | P | 10/08/2025 | 15:30 | LB137466 |
| | Sodium | 434 | <500 | U | 1000 | P | 10/08/2025 | 15:30 | LB137466 |

# METAL CALIBRATION DATA

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** G Environmental **SDG No.:** Q3278

**Contract:** GENV01 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICV01 | Iron | 3940 | 4000 | 99 | 90 - 110 | P | 10/08/2025 | 12:24 | LB137466 |
| | Manganese | 1960 | 2000 | 98 | 90 - 110 | P | 10/08/2025 | 12:24 | LB137466 |
| | Sodium | 19000 | 20000 | 95 | 90 - 110 | P | 10/08/2025 | 12:24 | LB137466 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** G Environmental **SDG No.:** Q3278

**Contract:** GENV01 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| LLICV01 | Iron | 107 | 100 | 107 | 80 - 120 | P | 10/08/2025 | 12:32 | LB137466 |
| | Manganese | 20.4 | 20.0 | 102 | 80 - 120 | P | 10/08/2025 | 12:32 | LB137466 |
| | Sodium | 1770 | 2000 | 89 | 80 - 120 | P | 10/08/2025 | 12:32 | LB137466 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** G Environmental **SDG No.:** Q3278

**Contract:** GENV01 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV01 | Iron | 5120 | 5000 | 102 | 90 - 110 | P | 10/08/2025 | 13:12 | LB137466 |
| | Manganese | 2530 | 2500 | 101 | 90 - 110 | P | 10/08/2025 | 13:12 | LB137466 |
| | Sodium | 25900 | 25000 | 104 | 90 - 110 | P | 10/08/2025 | 13:12 | LB137466 |
| CCV02 | Iron | 4760 | 5000 | 95 | 90 - 110 | P | 10/08/2025 | 14:14 | LB137466 |
| | Manganese | 2420 | 2500 | 97 | 90 - 110 | P | 10/08/2025 | 14:14 | LB137466 |
| | Sodium | 24100 | 25000 | 96 | 90 - 110 | P | 10/08/2025 | 14:14 | LB137466 |
| CCV03 | Iron | 4600 | 5000 | 92 | 90 - 110 | P | 10/08/2025 | 15:04 | LB137466 |
| | Manganese | 2340 | 2500 | 94 | 90 - 110 | P | 10/08/2025 | 15:04 | LB137466 |
| | Sodium | 22600 | 25000 | 90 | 90 - 110 | P | 10/08/2025 | 15:04 | LB137466 |
| CCV04 | Iron | 4810 | 5000 | 96 | 90 - 110 | P | 10/08/2025 | 16:11 | LB137466 |
| | Manganese | 2500 | 2500 | 100 | 90 - 110 | P | 10/08/2025 | 16:11 | LB137466 |
| | Sodium | 26100 | 25000 | 104 | 90 - 110 | P | 10/08/2025 | 16:11 | LB137466 |
| CCV05 | Iron | 5110 | 5000 | 102 | 90 - 110 | P | 10/08/2025 | 17:02 | LB137466 |
| | Manganese | 2400 | 2500 | 96 | 90 - 110 | P | 10/08/2025 | 17:02 | LB137466 |
| | Sodium | 26900 | 25000 | 108 | 90 - 110 | P | 10/08/2025 | 17:02 | LB137466 |
| CCV06 | Iron | 4990 | 5000 | 100 | 90 - 110 | P | 10/08/2025 | 17:53 | LB137466 |
| | Manganese | 2380 | 2500 | 95 | 90 - 110 | P | 10/08/2025 | 17:53 | LB137466 |
| | Sodium | 26000 | 25000 | 104 | 90 - 110 | P | 10/08/2025 | 17:53 | LB137466 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** G Environmental **SDG No.:** Q3278

**Contract:** GENV01 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICV01 | Iron | 4110 | 4000 | 103 | 90 - 110 | P | 10/09/2025 | 11:44 | LB137484 |
| | Manganese | 1900 | 2000 | 95 | 90 - 110 | P | 10/09/2025 | 11:44 | LB137484 |
| | Sodium | 19600 | 20000 | 98 | 90 - 110 | P | 10/09/2025 | 11:44 | LB137484 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** G Environmental **SDG No.:** Q3278

**Contract:** GENV01 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| LLICV01 | Iron | 105 | 100 | 105 | 80 - 120 | P | 10/09/2025 | 11:49 | LB137484 |
| | Manganese | 21.6 | 20.0 | 108 | 80 - 120 | P | 10/09/2025 | 11:49 | LB137484 |
| | Sodium | 1610 | 2000 | 80 | 80 - 120 | P | 10/09/2025 | 11:49 | LB137484 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** G Environmental **SDG No.:** Q3278

**Contract:** GENV01 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV01 | Iron | 5060 | 5000 | 101 | 90 - 110 | P | 10/09/2025 | 12:34 | LB137484 |
| | Manganese | 2500 | 2500 | 100 | 90 - 110 | P | 10/09/2025 | 12:34 | LB137484 |
| | Sodium | 24400 | 25000 | 98 | 90 - 110 | P | 10/09/2025 | 12:34 | LB137484 |
| CCV02 | Iron | 4790 | 5000 | 96 | 90 - 110 | P | 10/09/2025 | 14:16 | LB137484 |
| | Manganese | 2300 | 2500 | 92 | 90 - 110 | P | 10/09/2025 | 14:16 | LB137484 |
| | Sodium | 23500 | 25000 | 94 | 90 - 110 | P | 10/09/2025 | 14:16 | LB137484 |
| CCV03 | Iron | 4910 | 5000 | 98 | 90 - 110 | P | 10/09/2025 | 15:26 | LB137484 |
| | Manganese | 2310 | 2500 | 92 | 90 - 110 | P | 10/09/2025 | 15:26 | LB137484 |
| | Sodium | 23400 | 25000 | 94 | 90 - 110 | P | 10/09/2025 | 15:26 | LB137484 |
| CCV04 | Iron | 4790 | 5000 | 96 | 90 - 110 | P | 10/09/2025 | 16:26 | LB137484 |
| | Manganese | 2350 | 2500 | 94 | 90 - 110 | P | 10/09/2025 | 16:26 | LB137484 |
| | Sodium | 24300 | 25000 | 97 | 90 - 110 | P | 10/09/2025 | 16:26 | LB137484 |
| CCV05 | Iron | 4660 | 5000 | 93 | 90 - 110 | P | 10/09/2025 | 17:27 | LB137484 |
| | Manganese | 2360 | 2500 | 94 | 90 - 110 | P | 10/09/2025 | 17:27 | LB137484 |
| | Sodium | 23100 | 25000 | 92 | 90 - 110 | P | 10/09/2025 | 17:27 | LB137484 |
| CCV06 | Iron | 4910 | 5000 | 98 | 90 - 110 | P | 10/09/2025 | 18:16 | LB137484 |
| | Manganese | 2360 | 2500 | 94 | 90 - 110 | P | 10/09/2025 | 18:16 | LB137484 |
| | Sodium | 26600 | 25000 | 106 | 90 - 110 | P | 10/09/2025 | 18:16 | LB137484 |
| CCV07 | Iron | 5090 | 5000 | 102 | 90 - 110 | P | 10/09/2025 | 18:28 | LB137484 |
| | Manganese | 2310 | 2500 | 92 | 90 - 110 | P | 10/09/2025 | 18:28 | LB137484 |
| | Sodium | 26300 | 25000 | 105 | 90 - 110 | P | 10/09/2025 | 18:28 | LB137484 |

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# Metals

## - 2b -
## CRDL STANDARD FOR AA & ICP

**Client:** G Environmental **SDG No.:** Q3278

**Contract:** GENV01 **Lab Code:** ACE

**Initial Calibration Source:**

**Continuing Calibration Source:**

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CRI01 | Iron | 111 | 100 | 111 | 65 - 135 | P | 10/08/2025 | 12:41 | LB137466 |
| | Manganese | 21.1 | 20.0 | 105 | 65 - 135 | P | 10/08/2025 | 12:41 | LB137466 |
| | Sodium | 1840 | 2000 | 92 | 65 - 135 | P | 10/08/2025 | 12:41 | LB137466 |
| CRI01 | Iron | 112 | 100 | 112 | 65 - 135 | P | 10/09/2025 | 12:04 | LB137484 |
| | Manganese | 21.1 | 20.0 | 106 | 65 - 135 | P | 10/09/2025 | 12:04 | LB137484 |
| | Sodium | 1610 | 2000 | 80 | 65 - 135 | P | 10/09/2025 | 12:04 | LB137484 |

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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** G Environmental **SDG No.:** Q3278

**Contract:** GENV01 **Lab Code:** ACE

**ICS Source:** EPA **Instrument ID:** P4

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Low Limit (ug/L) | High Limit (ug/L) | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **ICSA01** | Iron | 89400 | 101000 | 88 | 85600 | 116500 | 10/08/2025 | 12:45 | LB137466 |
| | Manganese | 5.66 | 7.0 | 81 | -13 | 27 | 10/08/2025 | 12:45 | LB137466 |
| | Sodium | 60.4 | | | 0 | 0 | 10/08/2025 | 12:45 | LB137466 |
| **ICSAB01** | Iron | 101000 | 99300 | 102 | 84400 | 114500 | 10/08/2025 | 12:50 | LB137466 |
| | Manganese | 497 | 507 | 98 | 430 | 584 | 10/08/2025 | 12:50 | LB137466 |
| | Sodium | 40.2 | | | 0 | 0 | 10/08/2025 | 12:50 | LB137466 |
| **ICSA01** | Iron | 98600 | 101000 | 98 | 85600 | 116500 | 10/09/2025 | 12:09 | LB137484 |
| | Manganese | -1.37 | 7.0 | 20 | -13 | 27 | 10/09/2025 | 12:09 | LB137484 |
| | Sodium | -178 | | | 0 | 0 | 10/09/2025 | 12:09 | LB137484 |
| **ICSAB01** | Iron | 92400 | 99300 | 93 | 84400 | 114500 | 10/09/2025 | 12:19 | LB137484 |
| | Manganese | 441 | 507 | 87 | 430 | 584 | 10/09/2025 | 12:19 | LB137484 |
| | Sodium | -302 | | | 0 | 0 | 10/09/2025 | 12:19 | LB137484 |

# METAL QC DATA

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# metals
## - 5a -
## MATRIX SPIKE SUMMARY

**client:** G Environmental **level:** low **sdg no.:** Q3278

**contract:** GENV01 **lab code:** ACE

**matrix:** Water **sample id:** Q3268-01 **client id:** WATER-TREATMENT-DISCHARGEMS

**Percent Solids for Sample:** NA **Spiked ID:** Q3268-01MS **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Iron | ug/L | 75 - 125 | 3080 | | 1560 | | 1500 | 102 | | P |
| Manganese | ug/L | 75 - 125 | 126 | | 30.1 | | 100 | 96 | | P |
| Sodium | ug/L | 75 - 125 | 381000 | | 371000 | | 1500 | 705 | | P |

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# metals
## - 5a -
## MATRIX SPIKE DUPLICATE SUMMARY

**client:** G Environmental **level:** low **sdg no.:** Q3278

**contract:** GENV01 **lab code:** ACE

**matrix:** Water **sample id:** Q3268-01 **client id:** WATER-TREATMENT-DISCHARGEMSD

**Percent Solids for Sample:** NA **Spiked ID:** Q3268-01MSD **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Iron | ug/L | 75 - 125 | 3070 | | 1560 | | 1500 | 100 | | P |
| Manganese | ug/L | 75 - 125 | 126 | | 30.1 | | 100 | 96 | | P |
| Sodium | ug/L | 75 - 125 | 376000 | | 371000 | | 1500 | 347 | | P |

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# Metals
## - 5b -

**Client:** G Environmental **SDG No.:** Q3278

**Contract:** GENV01 **Lab Code:** ACE

**Matrix:** **Level:** LOW **Client ID:**

**Sample ID:** **Spiked ID:**

| Analyte | Units | Acceptance Limit %R | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|

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# Metals

## - 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** G Environmental **Level:** LOW **SDG No.:** Q3278

**Contract:** GENV01 **Lab Code:** ACE

**Matrix:** Water **Sample ID:** Q3268-01 **Client ID:** WATER-TREATMENT-DISCHARGEDU

**Percent Solids for Sample:** NA **Duplicate ID** Q3268-01DUP **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Iron | ug/L | 20 | 1560 | | 1600 | | 3 | | P |
| Manganese | ug/L | 20 | 30.1 | | 31.5 | | 5 | | P |
| Sodium | ug/L | 20 | 371000 | | 370000 | | 0 | | P |

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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# Metals

## - 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** G Environmental **Level:** LOW **SDG No.:** Q3278

**Contract:** GENV01 **Lab Code:** ACE

**Matrix:** Water **Sample ID:** Q3268-01MS **Client ID:** WATER-TREATMENT-DISCHARGEMS

**Percent Solids for Sample:** NA **Duplicate ID** Q3268-01MSD **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Iron | ug/L | 20 | 3080 | | 3070 | | 0 | | P |
| Manganese | ug/L | 20 | 126 | | 126 | | 0 | | P |
| Sodium | ug/L | 20 | 381000 | | 376000 | | 1 | | P |

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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## LABORATORY CONTROL SAMPLE SUMMARY

**Client:** G Environmental **SDG No.:** Q3278

**Contract:** GENV01 **Lab Code:** ACE

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB169978BS | | | | | | | |
| Iron | ug/L | 1500 | 1520 | | 101 | 80 - 120 | P |
| Manganese | ug/L | 100 | 104 | | 104 | 80 - 120 | P |
| Sodium | ug/L | 1500 | 1570 | | 105 | 80 - 120 | P |

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# Metals

## -9 -

## ICP SERIAL DILUTIONS

SAMPLE NO.

WATER-TREATMENT-DISCHARGEL

**Lab Name:** Alliance **Contract:** GENV01

**Lab Code:** ACE **Lb No.:** lb137466 **Lab Sample ID :** Q3268-01L **SDG No.:** Q3278

**Matrix (soil/water):** Water **Level (low/med):** LOW

**Concentration Units:** ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | M |
|---|---|---|---|---|---|---|---|
| Iron | 1560 | | 1510 | | 3 | | P |
| Manganese | 30.1 | | 31.4 | J | 5 | | P |
| Sodium | 371000 | | 361000 | | 2 | | P |

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**metals**
**- 14 -**
**ANALYSIS RUN LOG**

**Client:** G Environmental **Contract:** GENV01

**Lab code:** ACE **Sdg no.:** Q3278

**Instrument id number:** **Method:** **Run number:** LB137466

**Start date:** 10/08/2025 **End date:** 10/08/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1200 | Fe,Mn,Na |
| S1 | S1 | 1 | 1204 | Fe,Mn,Na |
| S2 | S2 | 1 | 1208 | Fe,Mn,Na |
| S3 | S3 | 1 | 1212 | Fe,Mn,Na |
| S4 | S4 | 1 | 1216 | Fe,Mn,Na |
| S5 | S5 | 1 | 1220 | Fe,Mn,Na |
| ICV01 | ICV01 | 1 | 1224 | Fe,Mn,Na |
| LLICV01 | LLICV01 | 1 | 1232 | Fe,Mn,Na |
| ICB01 | ICB01 | 1 | 1236 | Fe,Mn,Na |
| CRI01 | CRI01 | 1 | 1241 | Fe,Mn,Na |
| ICSA01 | ICSA01 | 1 | 1245 | Fe,Mn,Na |
| ICSAB01 | ICSAB01 | 1 | 1250 | Fe,Mn,Na |
| CCV01 | CCV01 | 1 | 1312 | Fe,Mn,Na |
| CCB01 | CCB01 | 1 | 1316 | Fe,Mn,Na |
| CCV02 | CCV02 | 1 | 1414 | Fe,Mn,Na |
| CCB02 | CCB02 | 1 | 1418 | Fe,Mn,Na |
| Q3268-01DUP | WATER-TREATMENT-DISCH/ | 1 | 1447 | Fe,Mn,Na |
| Q3268-01L | WATER-TREATMENT-DISCH/ | 5 | 1452 | Fe,Mn,Na |
| Q3268-01MS | WATER-TREATMENT-DISCH/ | 1 | 1456 | Fe,Mn,Na |
| Q3268-01MSD | WATER-TREATMENT-DISCH/ | 1 | 1500 | Fe,Mn,Na |
| CCV03 | CCV03 | 1 | 1504 | Fe,Mn,Na |
| CCB03 | CCB03 | 1 | 1513 | Fe,Mn,Na |
| PB169978BL | PB169978BL | 1 | 1530 | Fe,Mn,Na |
| PB169978BS | PB169978BS | 1 | 1534 | Fe,Mn,Na |
| CCV04 | CCV04 | 1 | 1611 | Fe,Mn,Na |
| CCB04 | CCB04 | 1 | 1615 | Fe,Mn,Na |
| CCV05 | CCV05 | 1 | 1702 | Fe,Mn,Na |
| CCB05 | CCB05 | 1 | 1706 | Fe,Mn,Na |
| CCV06 | CCV06 | 1 | 1753 | Fe,Mn,Na |
| CCB06 | CCB06 | 1 | 1757 | Fe,Mn,Na |

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**metals**
**- 14 -**
**ANALYSIS RUN LOG**

**Client:** G Environmental **Contract:** GENV01

**Lab code:** ACE **Sdg no.:** Q3278

**Instrument id number:** **Method:** **Run number:** LB137484

**Start date:** 10/09/2025 **End date:** 10/09/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1110 | Fe,Mn,Na |
| S1 | S1 | 1 | 1115 | Fe,Mn,Na |
| S2 | S2 | 1 | 1119 | Fe,Mn,Na |
| S3 | S3 | 1 | 1123 | Fe,Mn,Na |
| S4 | S4 | 1 | 1127 | Fe,Mn,Na |
| S5 | S5 | 1 | 1131 | Fe,Mn,Na |
| ICV01 | ICV01 | 1 | 1144 | Fe,Mn,Na |
| LLICV01 | LLICV01 | 1 | 1149 | Fe,Mn,Na |
| ICB01 | ICB01 | 1 | 1159 | Fe,Mn,Na |
| CRI01 | CRI01 | 1 | 1204 | Fe,Mn,Na |
| ICSA01 | ICSA01 | 1 | 1209 | Fe,Mn,Na |
| ICSAB01 | ICSAB01 | 1 | 1219 | Fe,Mn,Na |
| CCV01 | CCV01 | 1 | 1234 | Fe,Mn,Na |
| CCB01 | CCB01 | 1 | 1246 | Fe,Mn,Na |
| Q3278-01 | MW10 | 1 | 1305 | Fe,Na |
| Q3278-01 | MW10 | 2 | 1314 | Mn |
| CCV02 | CCV02 | 1 | 1416 | Fe,Mn,Na |
| CCB02 | CCB02 | 1 | 1420 | Fe,Mn,Na |
| CCV03 | CCV03 | 1 | 1526 | Fe,Mn,Na |
| CCB03 | CCB03 | 1 | 1530 | Fe,Mn,Na |
| CCV04 | CCV04 | 1 | 1626 | Fe,Mn,Na |
| CCB04 | CCB04 | 1 | 1641 | Fe,Mn,Na |
| CCV05 | CCV05 | 1 | 1727 | Fe,Mn,Na |
| CCB05 | CCB05 | 1 | 1731 | Fe,Mn,Na |
| CCV06 | CCV06 | 1 | 1816 | Fe,Mn,Na |
| CCB06 | CCB06 | 1 | 1820 | Fe,Mn,Na |
| CCV07 | CCV07 | 1 | 1828 | Fe,Mn,Na |
| CCB07 | CCB07 | 1 | 1833 | Fe,Mn,Na |

# METAL PREPARATION & INSTRUMENT DATA

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** G Environmental **SDG No.:** Q3278

**Contract:** GENV01 **Lab Code:** ACE

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Al | Ca | Fe | Mg | Ag |
|---|---|---|---|---|---|---|
| Iron | 240.488 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.610 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Sodium | 589.592 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** G Environmental **SDG No.:** Q3278

**Contract:** GENV01 **Lab Code:** ACE

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: As | Ba | Be | Cd | Co |
|---|---|---|---|---|---|---|
| Iron | 240.488 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0039600 |
| Manganese | 257.610 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Sodium | 589.592 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** G Environmental **SDG No.:** Q3278

**Contract:** GENV01 **Lab Code:** ACE

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Cr | Cu | K | Mn | Mo |
|---|---|---|---|---|---|---|
| Iron | 240.488 | 0.0000000 | 0.0000000 | 0.0000730 | 0.0000000 | -0.0015250 |
| Manganese | 257.610 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Sodium | 589.592 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** G Environmental **SDG No.:** Q3278

**Contract:** GENV01 **Lab Code:** ACE

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Na | Ni | Pb | Sb | Se |
|---|---|---|---|---|---|---|
| Iron | 240.488 | 0.0000000 | -0.0017000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.610 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Sodium | 589.592 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** G Environmental **SDG No.:** Q3278

**Contract:** GENV01 **Lab Code:** ACE

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Sn | Ti | Tl | V | Zn |
|---|---|---|---|---|---|---|
| Iron | 240.488 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.610 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Sodium | 589.592 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q3278 | **OrderDate:** | 10/2/2025 3:52:00 PM |
| **Client:** | G Environmental | **Project:** | DPW |
| **Contact:** | Gary Landis | **Location:** | D31,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q3278-01** | **MW10** | **Water** | | | **10/02/25** | | | **10/02/25** |
| | | | Metals Group3 | 6010D | | 10/03/25 | 10/09/25 | |

# METAL PREPARATION & ANALYICAL SUMMARY

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# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** G Environmental **SDG No.:** Q3278

**Contract:** GENV01 **Lab Code:** ACE **Method:**

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(mL) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB169978** | | | | | | |
| PB169978BL | PB169978BL | MB | WATER | 10/03/2025 | 50.0 | 25.0 | |
| PB169978BS | PB169978BS | LCS | WATER | 10/03/2025 | 50.0 | 25.0 | |
| Q3268-01DUP | WATER-TREATMENT-DISCHARGEDUP | DUP | WATER | 10/03/2025 | 50.0 | 25.0 | |
| Q3268-01MS | WATER-TREATMENT-DISCHARGEMS | MS | WATER | 10/03/2025 | 50.0 | 25.0 | |
| Q3268-01MSD | WATER-TREATMENT-DISCHARGEMSD | MSD | WATER | 10/03/2025 | 50.0 | 25.0 | |
| Q3278-01 | MW10 | SAM | WATER | 10/03/2025 | 50.0 | 25.0 | |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137466

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 10/10/2025 1:31:26 PM |
| Supervise By | jaswal | Supervise On | 10/10/2025 10:40:09 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP87031,MP87038,MP87035,MP87034,MP87033,MP87032 |
| ICV Standard | MP87047,MP87038 |
| CCV Standard | MP87042 |
| ICSA Standard | MP87040,MP87048 |
| CRI Standard | MP87038 |
| LCS Standard | |
| Chk Standard | MP87043,MP87044,MP87045,MP87046,MP87049 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 10/08/25 12:00 | | Jaswal | OK |
| 2 | S1 | S1 | CAL2 | 10/08/25 12:04 | | Jaswal | OK |
| 3 | S2 | S2 | CAL3 | 10/08/25 12:08 | | Jaswal | OK |
| 4 | S3 | S3 | CAL4 | 10/08/25 12:12 | | Jaswal | OK |
| 5 | S4 | S4 | CAL5 | 10/08/25 12:16 | | Jaswal | OK |
| 6 | S5 | S5 | CAL6 | 10/08/25 12:20 | | Jaswal | OK |
| 7 | ICV01 | ICV01 | ICV | 10/08/25 12:24 | | Jaswal | OK |
| 8 | LLICV01 | LLICV01 | LLICV | 10/08/25 12:32 | | Jaswal | OK |
| 9 | ICB01 | ICB01 | ICB | 10/08/25 12:36 | | Jaswal | OK |
| 10 | CRI01 | CRI01 | CRDL | 10/08/25 12:41 | | Jaswal | OK |
| 11 | ICSA01 | ICSA01 | ICSA | 10/08/25 12:45 | | Jaswal | OK |
| 12 | ICSAB01 | ICSAB01 | ICSAB | 10/08/25 12:50 | | Jaswal | OK |
| 13 | ICSADL | ICSADL | ICSA | 10/08/25 12:54 | | Jaswal | OK |
| 14 | ICSABDL | ICSABDL | ICSAB | 10/08/25 12:59 | | Jaswal | OK |
| 15 | CCV01 | CCV01 | CCV | 10/08/25 13:12 | | Jaswal | OK |
| 16 | CCB01 | CCB01 | CCB | 10/08/25 13:16 | | Jaswal | OK |
| 17 | LR-2 | LR-2 | HIGH STD | 10/08/25 13:25 | | Jaswal | OK |
| 18 | LR-3 | LR-3 | HIGH STD | 10/08/25 13:29 | | Jaswal | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137466

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 10/10/2025 1:31:26 PM |
| Supervise By | jaswal | Supervise On | 10/10/2025 10:40:09 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP87031,MP87038,MP87035,MP87034,MP87033,MP87032 |
| ICV Standard | MP87047,MP87038 |
| CCV Standard | MP87042 |
| ICSA Standard | MP87040,MP87048 |
| CRI Standard | MP87038 |
| LCS Standard | |
| Chk Standard | MP87043,MP87044,MP87045,MP87046,MP87049 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q3295-03 | EO-02-10062025 | SAM | 10/08/25 13:34 | | Jaswal | OK |
| 20 | Q3295-01 | EO-01-10062025 | SAM | 10/08/25 13:38 | | Jaswal | OK |
| 21 | Q3295-01L | EO-01-10062025L | SD | 10/08/25 13:46 | | Jaswal | OK |
| 22 | Q3295-01MS | EO-01-10062025MS | MS | 10/08/25 13:50 | | Jaswal | OK |
| 23 | Q3295-01MSD | EO-01-10062025MSD | MSD | 10/08/25 13:54 | | Jaswal | OK |
| 24 | Q3295-01A | EO-01-10062025A | PS | 10/08/25 13:58 | 0.1ML M6008,M6017-10ML SAMPLE | Jaswal | OK |
| 25 | LR-1 | LR-1 | HIGH STD | 10/08/25 14:02 | | Jaswal | OK |
| 26 | Q3295-01DUP | EO-01-10062025DUP | DUP | 10/08/25 14:08 | | Jaswal | OK |
| 27 | CCV02 | CCV02 | CCV | 10/08/25 14:14 | | Jaswal | OK |
| 28 | CCB02 | CCB02 | CCB | 10/08/25 14:18 | | Jaswal | OK |
| 29 | Q3296-01 | SU-04-10062025 | SAM | 10/08/25 14:23 | | Jaswal | OK |
| 30 | Q3293-01 | CONC-STORAGE-PA | SAM | 10/08/25 14:27 | | Jaswal | OK |
| 31 | Q3294-01 | HD-02-10062025 | SAM | 10/08/25 14:31 | | Jaswal | OK |
| 32 | Q3297-01 | TP1 | SAM | 10/08/25 14:35 | | Jaswal | OK |
| 33 | Q3297-11 | TP2 | SAM | 10/08/25 14:39 | | Jaswal | OK |
| 34 | Q3268-01 | WATER-TREATMENT | SAM | 10/08/25 14:43 | | Jaswal | OK |
| 35 | Q3268-01DUP | WATER-TREATMENT | DUP | 10/08/25 14:47 | | Jaswal | OK |
| 36 | Q3268-01L | WATER-TREATMENT | SD | 10/08/25 14:52 | | Jaswal | OK |
| 37 | Q3268-01MS | WATER-TREATMENT | MS | 10/08/25 14:56 | | Jaswal | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137466

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 10/10/2025 1:31:26 PM |
| Supervise By | jaswal | Supervise On | 10/10/2025 10:40:09 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP87031,MP87038,MP87035,MP87034,MP87033,MP87032 |
| ICV Standard | MP87047,MP87038 |
| CCV Standard | MP87042 |
| ICSA Standard | MP87040,MP87048 |
| CRI Standard | MP87038 |
| LCS Standard | |
| Chk Standard | MP87043,MP87044,MP87045,MP87046,MP87049 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 38 | Q3268-01MSD | WATER-TREATMENT | MSD | 10/08/25 15:00 | | Jaswal | OK |
| 39 | CCV03 | CCV03 | CCV | 10/08/25 15:04 | | Jaswal | OK |
| 40 | CCB03 | CCB03 | CCB | 10/08/25 15:13 | | Jaswal | OK |
| 41 | Q3268-01A | WATER-TREATMENT | PS | 10/08/25 15:17 | 0.1ML M6008,M6017-10ML SAMPLE | Jaswal | OK |
| 42 | PB169978BL | PB169978BL | MB | 10/08/25 15:30 | | Jaswal | OK |
| 43 | PB169978BS | PB169978BS | LCS | 10/08/25 15:34 | | Jaswal | OK |
| 44 | PB169959BL | PB169959BL | MB | 10/08/25 15:38 | | Jaswal | OK |
| 45 | PB169959BS | PB169959BS | LCS | 10/08/25 15:43 | | Jaswal | OK |
| 46 | Q3275-01 | MW3 | SAM | 10/08/25 15:47 | | Jaswal | OK |
| 47 | Q3275-02 | MW4 | SAM | 10/08/25 15:51 | | Jaswal | OK |
| 48 | Q3275-03 | MW5 | SAM | 10/08/25 15:55 | Na High | Jaswal | Dilution |
| 49 | CCV04 | CCV04 | CCV | 10/08/25 16:11 | | Jaswal | OK |
| 50 | CCB04 | CCB04 | CCB | 10/08/25 16:15 | | Jaswal | OK |
| 51 | Q3275-04 | MW1 | SAM | 10/08/25 16:19 | Not Use | Jaswal | Not Ok |
| 52 | Q3278-01 | MW10 | SAM | 10/08/25 16:24 | Not Use | Jaswal | Not Ok |
| 53 | Q3260-02 | COMP | SAM | 10/08/25 16:28 | | Jaswal | OK |
| 54 | Q3260-02DUP | COMPDUP | DUP | 10/08/25 16:32 | | Jaswal | OK |
| 55 | Q3260-02L | COMPL | SD | 10/08/25 16:37 | | Jaswal | OK |
| 56 | Q3260-02MS | COMPMS | MS | 10/08/25 16:41 | | Jaswal | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137466

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 10/10/2025 1:31:26 PM |
| Supervise By | jaswal | Supervise On | 10/10/2025 10:40:09 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP87031,MP87038,MP87035,MP87034,MP87033,MP87032 |
| ICV Standard | MP87047,MP87038 |
| CCV Standard | MP87042 |
| ICSA Standard | MP87040,MP87048 |
| CRI Standard | MP87038 |
| LCS Standard | |
| Chk Standard | MP87043,MP87044,MP87045,MP87046,MP87049 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 57 | Q3260-02MSD | COMPMSD | MSD | 10/08/25 16:45 | | Jaswal | OK |
| 58 | Q3260-02A | COMPA | PS | 10/08/25 16:49 | 0.1ML M6008,M6017-10ML SAMPLE | Jaswal | OK |
| 59 | Q3267-01DL2 | Q4DL2 | SAM | 10/08/25 16:53 | Not Use | Jaswal | Not Ok |
| 60 | Q3267-01DL | Q4DL | SAM | 10/08/25 16:58 | 50X Straight Dilution | Jaswal | OK |
| 61 | CCV05 | CCV05 | CCV | 10/08/25 17:02 | | Jaswal | OK |
| 62 | CCB05 | CCB05 | CCB | 10/08/25 17:06 | | Jaswal | OK |
| 63 | PB170024BL | PB170024BL | MB | 10/08/25 17:10 | | Jaswal | OK |
| 64 | PB170024BS | PB170024BS | LCS | 10/08/25 17:15 | | Jaswal | OK |
| 65 | Q3293-02 | CONC-STORAGE-PA | SAM | 10/08/25 17:19 | | Jaswal | OK |
| 66 | Q3297-10 | TP1 | SAM | 10/08/25 17:23 | | Jaswal | OK |
| 67 | Q3297-20 | TP2 | SAM | 10/08/25 17:27 | | Jaswal | OK |
| 68 | Q3302-06 | OR-658-COMP-01 | SAM | 10/08/25 17:32 | NOT USE | Jaswal | Not Ok |
| 69 | Q3302-06DUP | OR-658-COMP-01DU | DUP | 10/08/25 17:36 | NOT USE | Jaswal | Not Ok |
| 70 | Q3302-06L | OR-658-COMP-01L | SD | 10/08/25 17:41 | NOT USE | Jaswal | Not Ok |
| 71 | Q3302-06MS | OR-658-COMP-01MS | MS | 10/08/25 17:45 | NOT USE | Jaswal | Not Ok |
| 72 | Q3302-06MSD | OR-658-COMP-01MS | MSD | 10/08/25 17:49 | NOT USE | Jaswal | Not Ok |
| 73 | CCV06 | CCV06 | CCV | 10/08/25 17:53 | | Jaswal | OK |
| 74 | CCB06 | CCB06 | CCB | 10/08/25 17:57 | | Jaswal | OK |

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Fax : 908 789 8922

**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137484

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 10/10/2025 1:52:59 PM |
| Supervise By | Janvi | Supervise On | 10/13/2025 10:50:19 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP87031,MP87038,MP87035,MP87034,MP87033,MP87032 |
| ICV Standard | MP87047,MP87035 |
| CCV Standard | MP87042 |
| ICSA Standard | MP87041,MP87048 |
| CRI Standard | MP87035 |
| LCS Standard | |
| Chk Standard | MP87043,MP87044,MP87045,MP87046,MP87049 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 10/09/25 11:10 | | Jaswal | OK |
| 2 | S1 | S1 | CAL2 | 10/09/25 11:15 | | Jaswal | OK |
| 3 | S2 | S2 | CAL3 | 10/09/25 11:19 | | Jaswal | OK |
| 4 | S3 | S3 | CAL4 | 10/09/25 11:23 | | Jaswal | OK |
| 5 | S4 | S4 | CAL5 | 10/09/25 11:27 | | Jaswal | OK |
| 6 | S5 | S5 | CAL6 | 10/09/25 11:31 | | Jaswal | OK |
| 7 | ICV01 | ICV01 | ICV | 10/09/25 11:44 | | Jaswal | OK |
| 8 | LLICV01 | LLICV01 | LLICV | 10/09/25 11:49 | | Jaswal | OK |
| 9 | ICB01 | ICB01 | ICB | 10/09/25 11:59 | | Jaswal | OK |
| 10 | CRI01 | CRI01 | CRDL | 10/09/25 12:04 | | Jaswal | OK |
| 11 | ICSA01 | ICSA01 | ICSA | 10/09/25 12:09 | | Jaswal | OK |
| 12 | ICSAB01 | ICSAB01 | ICSAB | 10/09/25 12:19 | | Jaswal | OK |
| 13 | ICSADL | ICSADL | ICSA | 10/09/25 12:23 | | Jaswal | OK |
| 14 | ICSABDL | ICSABDL | ICSAB | 10/09/25 12:30 | | Jaswal | OK |
| 15 | CCV01 | CCV01 | CCV | 10/09/25 12:34 | | Jaswal | OK |
| 16 | CCB01 | CCB01 | CCB | 10/09/25 12:46 | | Jaswal | OK |
| 17 | LR-2 | LR-2 | HIGH STD | 10/09/25 12:56 | | Jaswal | OK |
| 18 | Q3278-01 | MW10 | SAM | 10/09/25 13:05 | Mn high | Jaswal | Dilution |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137484

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 10/10/2025 1:52:59 PM |
| Supervise By | Janvi | Supervise On | 10/13/2025 10:50:19 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP87031,MP87038,MP87035,MP87034,MP87033,MP87032 |
| ICV Standard | MP87047,MP87035 |
| CCV Standard | MP87042 |
| ICSA Standard | MP87041,MP87048 |
| CRI Standard | MP87035 |
| LCS Standard | |
| Chk Standard | MP87043,MP87044,MP87045,MP87046,MP87049 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q3275-04 | MW1 | SAM | 10/09/25 13:09 | | Jaswal | OK |
| 20 | Q3278-01DL | MW10DL | SAM | 10/09/25 13:14 | 2x for Mn | Jaswal | Confirms |
| 21 | Q3275-03DL | MW5DL | SAM | 10/09/25 13:18 | NOT USE | Jaswal | Not Ok |
| 22 | Q3302-06 | OR-658-COMP-01 | SAM | 10/09/25 13:22 | | Jaswal | OK |
| 23 | Q3302-06DUP | OR-658-COMP-01DU | DUP | 10/09/25 13:27 | | Jaswal | OK |
| 24 | Q3302-06L | OR-658-COMP-01L | SD | 10/09/25 13:31 | | Jaswal | OK |
| 25 | LR-1 | LR-1 | HIGH STD | 10/09/25 13:35 | | Jaswal | OK |
| 26 | CCV02 | CCV02 | CCV | 10/09/25 14:16 | | Jaswal | OK |
| 27 | CCB02 | CCB02 | CCB | 10/09/25 14:20 | | Jaswal | OK |
| 28 | Q3302-06MS | OR-658-COMP-01MS | MS | 10/09/25 14:28 | | Jaswal | OK |
| 29 | Q3302-06MSD | OR-658-COMP-01MS | MSD | 10/09/25 14:32 | | Jaswal | OK |
| 30 | Q3302-06A | OR-658-COMP-01A | PS | 10/09/25 14:52 | 0.1ML M6008,M6017-10ML | Jaswal | OK |
| 31 | LR-3 | LR-3 | HIGH STD | 10/09/25 14:58 | | Jaswal | OK |
| 32 | PB170010TB | PB170010TB | MB | 10/09/25 15:05 | | Jaswal | OK |
| 33 | PB170023BL | PB170023BL | MB | 10/09/25 15:10 | | Jaswal | OK |
| 34 | PB170023BS | PB170023BS | LCS | 10/09/25 15:14 | | Jaswal | OK |
| 35 | PB170009BS | PB170009BS | LCS | 10/09/25 15:18 | | Jaswal | OK |
| 36 | Q3302-01 | OR-658-COMP-01 | SAM | 10/09/25 15:22 | | Jaswal | OK |
| 37 | CCV03 | CCV03 | CCV | 10/09/25 15:26 | | Jaswal | OK |
| 38 | CCB03 | CCB03 | CCB | 10/09/25 15:30 | | Jaswal | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137484

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 10/10/2025 1:52:59 PM |
| Supervise By | Janvi | Supervise On | 10/13/2025 10:50:19 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP87031,MP87038,MP87035,MP87034,MP87033,MP87032 |
| ICV Standard | MP87047,MP87035 |
| CCV Standard | MP87042 |
| ICSA Standard | MP87041,MP87048 |
| CRI Standard | MP87035 |
| LCS Standard | |
| Chk Standard | MP87043,MP87044,MP87045,MP87046,MP87049 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 39 | Q3303-01 | HL-WEST | SAM | 10/09/25 15:34 | | Jaswal | OK |
| 40 | Q3303-03 | HL-EAST | SAM | 10/09/25 15:38 | | Jaswal | OK |
| 41 | Q3304-01 | TR-04-100725 | SAM | 10/09/25 15:42 | | Jaswal | OK |
| 42 | Q3304-01DUP | TR-04-100725DUP | DUP | 10/09/25 15:47 | | Jaswal | OK |
| 43 | Q3304-01L | TR-04-100725L | SD | 10/09/25 15:51 | | Jaswal | OK |
| 44 | Q3304-01MS | TR-04-100725MS | MS | 10/09/25 15:55 | | Jaswal | OK |
| 45 | Q3304-01MSD | TR-04-100725MSD | MSD | 10/09/25 15:59 | | Jaswal | OK |
| 46 | Q3304-01A | TR-04-100725A | PS | 10/09/25 16:02 | 0.1ML M6008,M6017-10ML | Jaswal | OK |
| 47 | Q3304-03 | TR-05-100725 | SAM | 10/09/25 16:06 | | Jaswal | OK |
| 48 | Q3305-01 | AU-06-100725 | SAM | 10/09/25 16:10 | | Jaswal | OK |
| 49 | CCV04 | CCV04 | CCV | 10/09/25 16:26 | | Jaswal | OK |
| 50 | CCB04 | CCB04 | CCB | 10/09/25 16:41 | | Jaswal | OK |
| 51 | Q3292-01 | RW8-SP100-2025100 | SAM | 10/09/25 16:45 | | Jaswal | OK |
| 52 | Q3292-02 | RW8-SP303-2025100 | SAM | 10/09/25 16:50 | | Jaswal | OK |
| 53 | Q3292-02DUP | RW8-SP303-2025100 | DUP | 10/09/25 16:54 | | Jaswal | OK |
| 54 | Q3292-02L | RW8-SP303-2025100 | SD | 10/09/25 16:58 | | Jaswal | OK |
| 55 | Q3292-02MS | RW8-SP303-2025100 | MS | 10/09/25 17:02 | | Jaswal | OK |
| 56 | Q3292-02MSD | RW8-SP303-2025100 | MSD | 10/09/25 17:06 | | Jaswal | OK |
| 57 | Q3292-02A | RW8-SP303-2025100 | PS | 10/09/25 17:10 | 0.1ML M6008,M6017-10ML | Jaswal | OK |
| 58 | Q3275-03DL2 | MW5DL2 | SAM | 10/09/25 17:14 | 10x for Na | Jaswal | Confirms |

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## Daily Analysis Runlog For Sequence/QCBatch ID # LB137484

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 10/10/2025 1:52:59 PM |
| Supervise By | Janvi | Supervise On | 10/13/2025 10:50:19 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP87031,MP87038,MP87035,MP87034,MP87033,MP87032 |
| ICV Standard | MP87047,MP87035 |
| CCV Standard | MP87042 |
| ICSA Standard | MP87041,MP87048 |
| CRI Standard | MP87035 |
| LCS Standard | |
| Chk Standard | MP87043,MP87044,MP87045,MP87046,MP87049 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 59 | PB170044BS | PB170044BS | LCS | 10/09/25 17:23 | | Jaswal | OK |
| 60 | CCV05 | CCV05 | CCV | 10/09/25 17:27 | | Jaswal | OK |
| 61 | CCB05 | CCB05 | CCB | 10/09/25 17:31 | | Jaswal | OK |
| 62 | Q3313-01 | ETGI-360 | SAM | 10/09/25 17:35 | | Jaswal | OK |
| 63 | Q3315-03 | 72-11989 | SAM | 10/09/25 17:39 | | Jaswal | OK |
| 64 | Q3315-03DUP | 72-11989DUP | DUP | 10/09/25 17:43 | | Jaswal | OK |
| 65 | Q3315-03L | 72-11989L | SD | 10/09/25 17:48 | | Jaswal | OK |
| 66 | Q3315-03MS | 72-11989MS | MS | 10/09/25 17:52 | | Jaswal | OK |
| 67 | Q3315-03MSD | 72-11989MSD | MSD | 10/09/25 17:56 | | Jaswal | OK |
| 68 | Q3315-03A | 72-11989A | PS | 10/09/25 17:59 | 0.1ML M6008,M6017-10ML | Jaswal | OK |
| 69 | Q3318-01 | VNJ-207 | SAM | 10/09/25 18:03 | | Jaswal | OK |
| 70 | Q3319-01 | OK-01-100825 | SAM | 10/09/25 18:07 | | Jaswal | OK |
| 71 | PB170009BL | PB170009BL | MB | 10/09/25 18:11 | | Jaswal | OK |
| 72 | CCV06 | CCV06 | CCV | 10/09/25 18:16 | | Jaswal | OK |
| 73 | CCB06 | CCB06 | CCB | 10/09/25 18:20 | | Jaswal | OK |
| 74 | PB170044BL | PB170044BL | MB | 10/09/25 18:24 | | Jaswal | OK |
| 75 | CCV07 | CCV07 | CCV | 10/09/25 18:28 | | Jaswal | OK |
| 76 | CCB07 | CCB07 | CCB | 10/09/25 18:33 | | Jaswal | OK |

Alliance TECHNICAL GROUP

# Water Metals Preparation Sheet

PB169978

**SOP ID :** M3010A-Digestion-17

**SDG No :** N/A

**Matrix :** WATER

**Pippete ID:** ICP A

**Balance ID :** N/A

**Filter paper ID :** N/A

**pH Strip ID :** M6069

**Hood ID :** #3

**Block ID:** 1. HOT BOCK #1 2. N/A

**Start Digest Date:** 10/03/2025 **Time :** 10:20 **Temp :** 96 °C

**End Digest Date:** 10/03/2025 **Time :** 13:25 **Temp :** 96 °C

**Digestion tube ID:** M5595

**Block thermometer ID:** MET-DIG. #1

**Dig Technician Signature:** SKJ.

**Supervisor Signature:**

**Temp :** 1. 96°C 2. N/A

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| LFS-1 | 0.25 | M6180 |
| LFS-2 | 0.25 | M6181 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| Conc. HNO3 | 3.00 | M6158 |
| 1:1 HCL | 5.00 | MP87148 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

HOT BLOCK#1 CELL#50 96 C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 10/03/2025 13:25 | SDS met dig. | SG (metals lab) |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

**Water Metals Preparation Sheet**

**PB169978**

| Lab Sample ID | Client Sample ID | pH | Initial Vol (ml) | Final Vol (ml) | Color Before | Color After | Clarity Before | Clarity After | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| PB169978BL | PBW978 | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | N/A | 1 |
| PB169978BS | LCS978 | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | M6180,M6181 | 2 |
| Q3268-01MS | WATER-TREATMENT-DISCHA RGEMS | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | M6180,M6181 | 5 |
| Q3268-01MSD | WATER-TREATMENT-DISCHA RGEMSD | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | M6180,M6181 | 6 |
| Q3268-01DUP | WATER-TREATMENT-DISCHA RGEDUP | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | N/A | 4 |
| Q3268-01 | WATER-TREATMENT-DISCHA RGE | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | N/A | 3 |
| Q3275-01 | MW3 | <2 | 50 | 25 | light Brown | Colorless | Clear | Clear | N/A | 7 |
| Q3275-02 | MW4 | <2 | 50 | 25 | Brown | light Brown | Cloudy | Clear | N/A | 8 |
| Q3275-03 | MW5 | <2 | 50 | 25 | light Brown | Colorless | Clear | Clear | N/A | 9 |
| Q3275-04 | MW1 | <2 | 50 | 25 | light Brown | Colorless | Clear | Clear | N/A | 10 |
| Q3278-01 | MW10 | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | N/A | 11 |